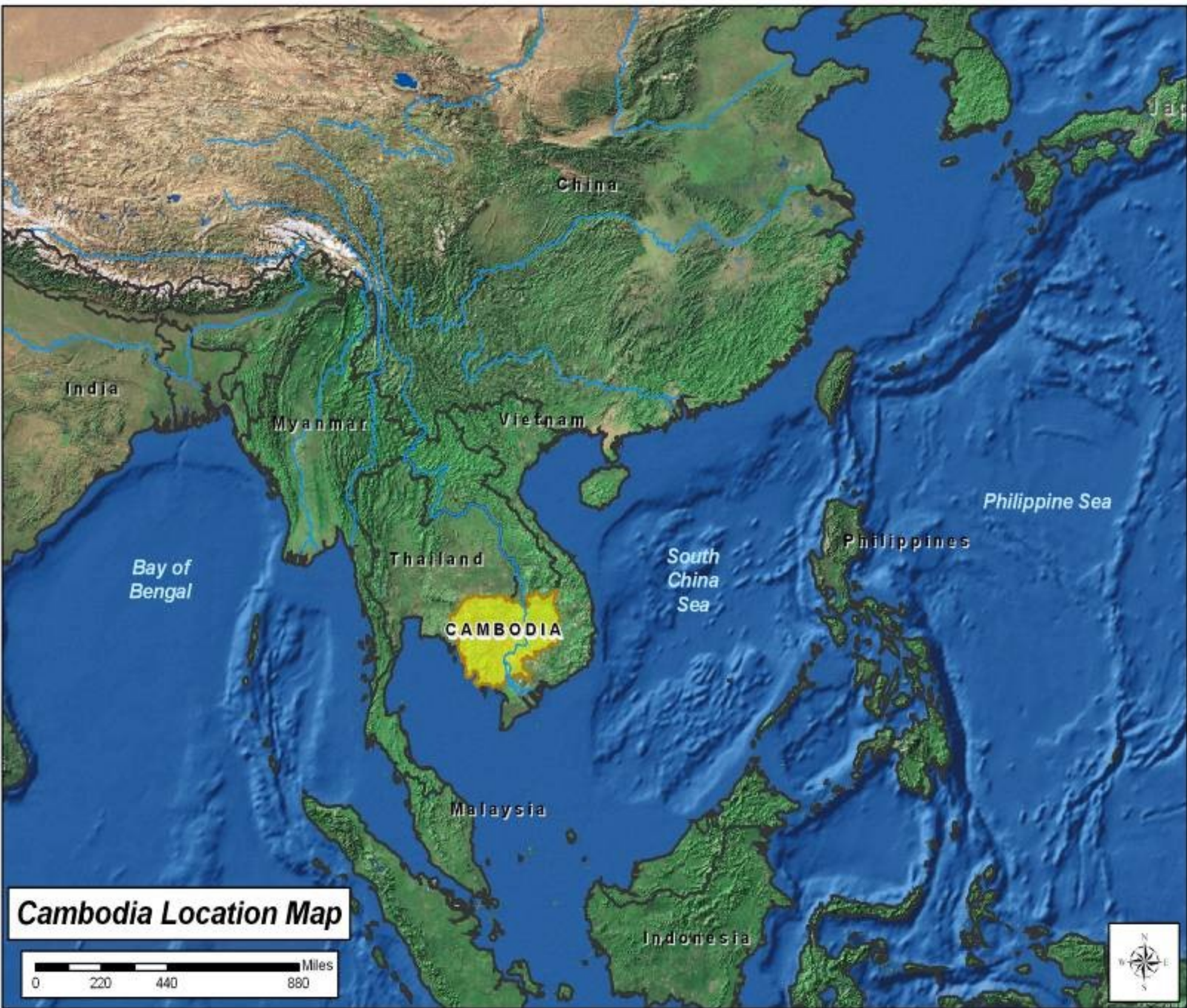


# CAMBODIA

- Developing country
- Limited industrial infrastructure and manufacturing base

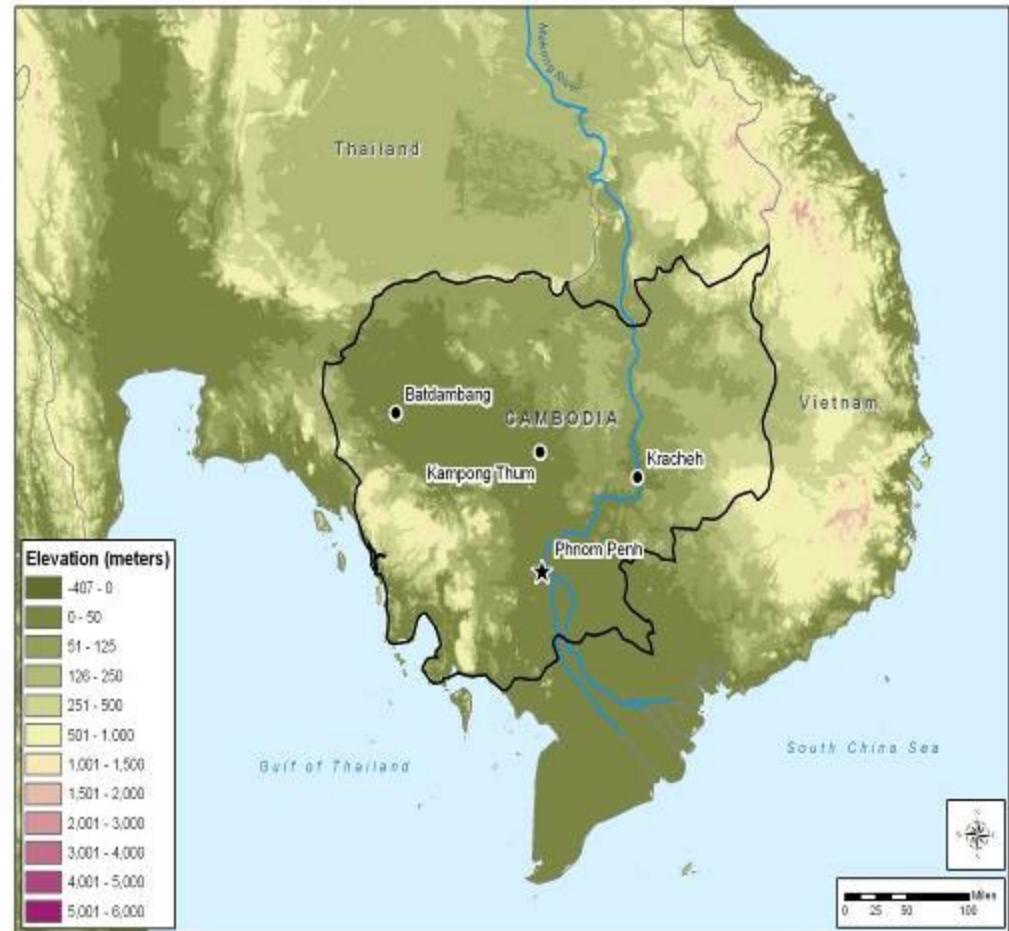


# Where in the world is Cambodia?



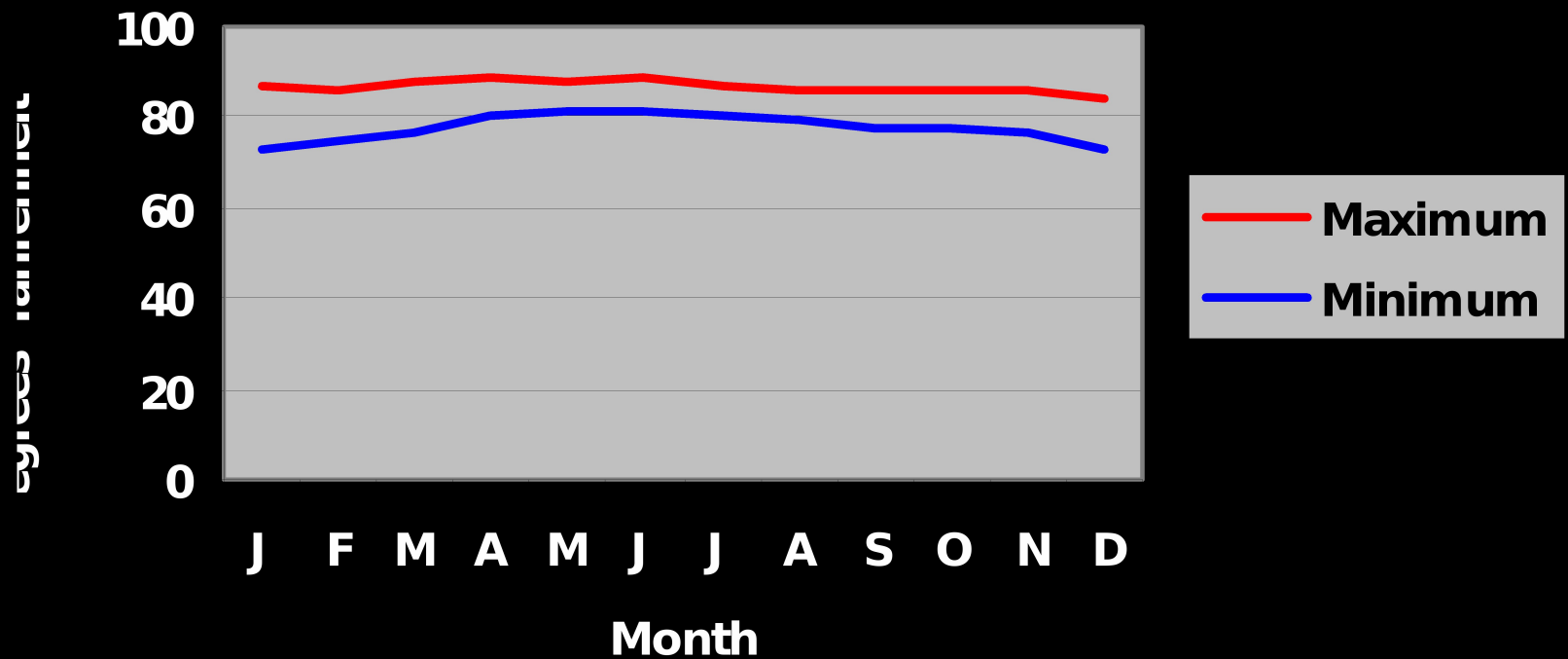
# Physical Environment

- **Topography**
  - About the size of Oklahoma
  - 3 geographic regions
    - central basin, highlands, Mekong River
- **Climate**
  - Tropical monsoonal climate
  - Dry season, wet season, flooding



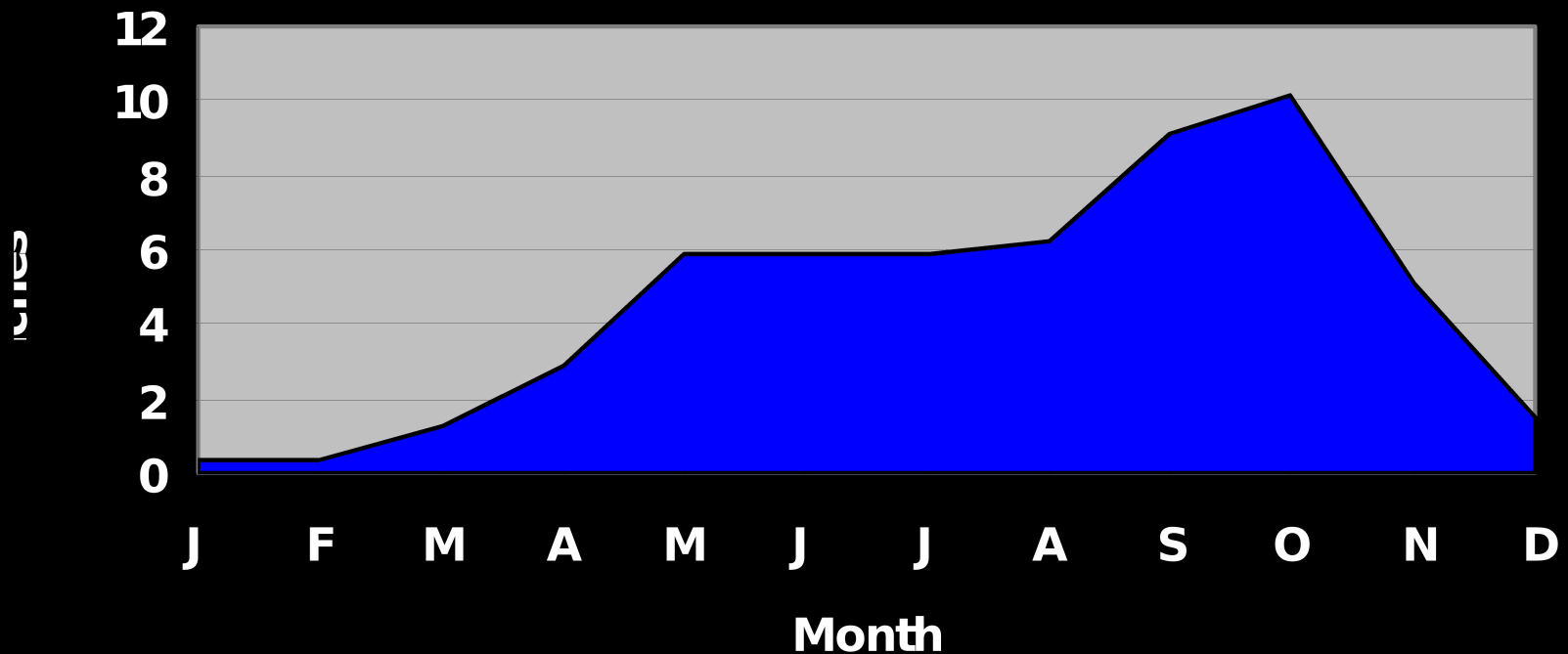
# Physical Environment

Average Max/Min Temperature in Phnom Penh



# Physical Environment

**Average Total Precipitation in Phnom Penh**



# Environmental Health Risk

- **Greatest short term risks associated with water contaminated with raw sewage and extreme heat**
- **Greatest long term risks associated with water contaminated with industrial pollutants or pesticides**



# Environmental Issues

- Air Contamination
  - Overall, low risk to human health
  - Is on the rise in urban areas
  - Leaded gasoline is still used in Cambodia



# Environmental Issues Cont.

- Soil Contamination

- Localized to industrial areas
- Low risk to human health

- Water Contamination

- Indiscriminate disposal of raw sewage and industrial waste
- 40% of residents lack access to potable water
- Local bottled water commercially available but not safe



# Infectious Disease Risk Definitions

HIGH	INTERMEDIATE	LOW
<p>The main force health protection emphasis should be on these diseases, which are the most likely to degrade operations by affecting a large percentage of personnel, or by causing severe illness in a smaller percentage.</p>	<p>These diseases also warrant force protection emphasis. They are less likely to degrade operations because they generally affect smaller numbers of personnel, or cause mild symptoms.</p>	<p>Other militarily significant diseases that are likely to have a minimal impact on operational readiness. These diseases are not generally discussed in the Medical Threat Presentations.</p>

# Infectious Disease Risk

- **VERY HIGH RISK** for infectious diseases
- Inadequate force health protection (FHP) measures, will seriously jeopardize mission effectiveness

# Infectious Diseases

- Foodborne and Waterborne Diseases
  - **HIGH RISK** = Diarrhea - bacterial & protozoal, hepatitis A, typhoid/paratyphoid
  - **INTERMEDIATE RISK** = hepatitis E, brucellosis, cholera
- FHP Priorities
  - **Deploy appropriate PM personnel and equipment**
  - Consume food, water, ice only from US-approved sources
  - Operate food preparation facilities in accordance with Army doctrine
  - Ensure proper hand washing facilities near all latrines and dining facilities and enforce

# Infectious Diseases Cont.

- Vector-borne Diseases
  - **HIGH RISK** = Dengue fever, Malaria, Japanese encephalitis
  - **INTERMEDIATE RISK** = Chikungunya, Typhus, Plague
- FHP Priorities
  - Use DEET on all exposed skin
  - Treat field uniforms with permethrin
  - Use bed nets in field conditions, treat with permethrin
  - Anti-malarial medication as appropriate



# Infectious Diseases Cont.

- Animal-contact Diseases
  - **INTERMEDIATE RISK** = Anthrax, Q-fever, Rabies
  - **LOW** = H5N1 avian influenza
- FHP Priorities
  - Avoid animal contact (alive or dead), especially if an animal exhibits strange behavior
  - No mascots
  - Report all animal bites and scratches
  - Do not keep food in living areas
  - Dispose of trash properly



# Infectious Diseases Cont.

- Sexually Transmitted Diseases
  - **HIGH RISK** = hepatitis B
  - **INTERMEDIATE RISK** = gonorrhea/chlamydia, HIV/AIDS
- FHP Priorities
  - Avoid sexual contact
  - Use latex condoms if sexually active



# Infectious Diseases Cont.

- Water-contact Diseases
  - **INTERMEDIATE RISK** = schistosomiasis, leptospirosis
- FHP Priorities
  - avoid unnecessary contact with lakes, rivers, streams, and other surface water

There will not be a sign like

**WARNING!**

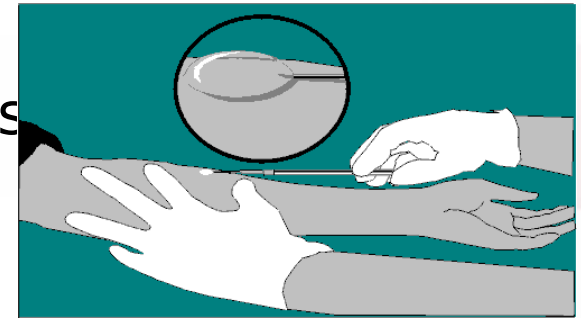
**LEPTOSPIROSIS  
HEALTH HAZARD**

FRESH WATER STREAMS AND MUD  
POSSIBLY POLLUTED WITH BACTERIA

SWIM, BOAT,  
OR HIKE AT YOUR OWN RISK

# Infectious Diseases Cont.

- Respiratory Diseases
  - **INTERMEDIATE RISK** = tuberculosis



- FHP Priorities

- Tuberculin skin test before and after deployment
- 72 sq ft/person and head-to-toe sleeping arrangement
- Cough or sneeze into your upper sleeve instead of your hands
- Wash hands at every opportunity
- Avoid close contact with local population

# Hazardous Animals & Plants

- Animals

- Rabid dogs, snakes, centipedes, scorpions, spiders



- Plants

- Strychnine, Castor Bean



- FHP Priorities

- Do not handle animals
- Shake out boots, clothing, & bedding
- Do not touch, chew, eat, or burn unfamiliar plants



# SUMMARY

- Physical Environment
- Infectious Diseases = **VERY HIGH RISK**
- Hazardous Animals and Plants
- FHP measures are simple and
  - Use and Enforce
  - Will conserve the fighting stren

